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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

GCE Advanced Subsidiary Level and GCE Advanced Level

MARK SCHEME for the October/November 2011 question paper for the guidance of teachers

9705 DESIGN AND TECHNOLOGY

9705/13

Paper 1, maximum raw mark 120

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

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Page 2	Mark Scheme: Teachers' version	Syllabus	er
	GCE AS/A LEVEL – October/November 2011	9705	100-

		GOL AGIA LEVEL GOLOBEI/HOVEIIISCI 2011 3100	00	
1	(a) Suitable finish named e.g. Paint, varnish Suitable reason for choice given e.g. To enhance appearance, to protect surface		aCan,	bride
	(b) (i	Cutting out of material described Smoothing edges of material described Details of tools, equipment and safety precautions (if necessary)	(0-2) (0-2) (0-2)	[6]
	(ii	 Method of joining described Details of tools, equipment and safety precautions (if necessary) 	(0–3) (0–3)	[6]
	(iii	 Method of joining described Details of tools, equipment and safety precautions (if necessary) 	(0-3) (0-3)	[6]
			[Total:	20]
2	`´e	uitable thickness of card stated g. 1–2mm, 1000–2000 microns	(1)	
	Suitable reason for choice given e.g. related to strength/stability of material and its ability to support weight of leaflets		(1)	[2]
	· F	orrect assembly shown as pictorial view ront and back truts ocking' pieces	(1) (0–2) (0–2) (1)	[6]
	` '	utting out and folding process described etails of tools, equipment and safety precautions (if necessary)	(0-3) (0-3)	[6]
		ie cutting process described etails of tools, equipment and safety precautions (if necessary)	(0-3) (0-3)	
			[Total:	20]

Page 3	Mark Scheme: Teachers' version	Syllabus	er	
	GCE AS/A LEVEL – October/November 2011	9705	100	

3	e. S	uitable material named g. acrylic, polystyrene, aluminium, stainless steel uitable reason for choice given g. Surface finish is not required	(1)	bridg
	(b) (i	Process of bending described Details of tools, equipment and safety precautions (if necessary)	(0-3) (0-3)	[6]
	(ii	 Cutting out material described Smoothing edges of material described Details of tools, equipment and safety precautions (if necessary) 	(0-2) (0-2) (0-2)	[6]
	(iii	Marking out of holes described Drilling holes described Details of tools, equipment and safety precautions (if necessary)	(0-2) (0-2) (0-2)	[6]
			[Total:	20]
4		eference to recycling lade from 40% recycled material	(1) (1)	[2]
	P e	roblem 1 described roblem 2 described g. Problems related to egg moving about. no side fold over flaps, 'windows' nd/or tuck in flap too big, poor security	(0-2) (0-2)	[4]
	E e	xplanation of how problem 1 could be overcome xplanation of how problem 2 could be overcome g. Inner packaging added to prevent egg moving, additional flaps added, zes of 'windows' and tuck in flap changed, security sticker added	(0-3) (0-3)	[6]
	E	ituation has been analysed and relevant issues/points identified. xplanation of why issues/points are considered relevant pecific examples/evidence used to support conclusions	(0-3) (0-3) (0-2)	[8]
			[Total:	20]

Page 4	Mark Scheme: Teachers' version	Syllabus	er
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5	(a)	Appropriate explanation	
		a a Asta as bandle to null out drawer provides a	

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				34		
	Pa	ge 4	Mark Scheme: Teachers' version	Syllabus	S er	•
			GCE AS/A LEVEL – October/November 2011	9705	200	
;	(a)	e.g. Acts	ate explanation s as handle to pull out drawer, provides space for s s contents of drawer	slot in label which	Call	bridge com
	(b)	Problem	1 described 2 described plems related to poor stability and CDs falling out of s		(0-2) (0-2) 4	on
	(c)	Explanat e.g. Incr	tion of how problem 1 could be overcome tion of how problem 2 could be overcome reasing size of base, adding weight to base, mak slots at an angle	ing slots deeper,	(0-3) (0-3)	[6]
	(d)	Explanat	n has been analysed and relevant issues/points ident tion of why issues/points are considered relevant examples/evidence used to support conclusions	ified.	(0-3) (0-3) (0-2) [Total	[8] : 20]
i	(a)		ate explanation ng, allows board to bend in wind, makes it harder to k	knock board over	(0-2)	[4]
	(b)	Problem e.g. Noth	1 described 2 described hing to hold two frames together, poor stability, two pard can easily collapse	frames can slide	(0-2) (0-2)	[4]
	(c)	Explanat e.g. join	tion of how problem 1 could be overcome tion of how problem 2 could be overcome two frames together with hinges or something simila s together chain or something similar	ar, connect bottom	(0-3) (0-3)	[6]
	(d)	Explanat	has been analysed and relevant issues/points ident tion of why issues/points are considered relevant examples/evidence used to support conclusions	ified.	(0-3) (0-3) (0-2)	[8]

[Total: 20]

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Page 5		Mark Scheme: Teachers' version	Syllabus	S. 1	ŗ
		GCE AS/A LEVEL – October/November 2011	9705	200	
(a)	OR The dev			GANGCAI	Abride
	proposal solution Clarity a	relopment and selection of a range of ideas into a that includes sufficient technical detail to show that would clearly work and quality of sketching and explanatory notes on (reasons for selection)	•	(8–10) (0–3) (0–3)	[16]
(b)	As for pa	art (a)			[16]
(c)	As for pa	art (a)			[16]
(d)	As for pa	art (a)			[16]
(e)		wing will exhibit a reasonable standard of outcome and ired design features	d show some of	(0-3)	
	The drav	wing will exhibit a good standard of outcome and sheatures required to make the product function as intended		(4–7)	
	The drav	wing will be completed to a high standard of outcome on features required to make the product function as in	•	(8–10)	
	Some u drawing OR	se made of colour and tone to enhance the visua	I impact of the	(0-2)	
		se has been made of colour and tone to enhance the ring	visual impact of	(3–4)	
	Very god	od use has been made of colour, tone and material re the visual impact of the drawing	epresentation to	(5–6)	[16]

[Total: 80]

Questions 8 and 9 as for Question 7

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